ChatGPT

1. C++ `std::vector` vs. C# `List<T>`

C++ STL	Description	C# Equivalent	Description
`std::vector`	A dynamic array that can resize itself automatically.	`List<T>`	A strongly-typed dynamic array.
`push_back(value)`	Adds an element to the end of the vector.	`Add(item)`	Adds an item to the end of the list.
`pop_back()`	Removes the last element of the vector.	`RemoveAt(list.Count-1)`	Removes the last item.
`size()`	Returns the number of elements in the vector.	`Count`	Gets the number of elements in the list.
`empty()`	Checks if the vector is empty.	`Count == 0`	Returns true if the list is empty.
`resize(newSize)`	Resizes the vector to contain the specified number of elements.	`Capacity`	Adjusts the storage capacity of the list.
`at(index)`	Accesses the element at the specified index.	`list[index]`	Gets or sets the element at the specified index.
`insert(pos, value)`	Inserts an element at the specified position.	`Insert(index, item)`	Inserts an item at the specified index.
`erase(pos)`	Removes the element at the specified position.	`RemoveAt(index)`	Removes the item at the specified index.
`clear()`	Removes all elements from the vector	`Clear()`	Clears all items in the list.

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